

AUTHOR INDEX TO VOLUME 34

This index lists, in alphabetical order, the names of authors of all articles and book reviews. Full citation is provided under the first author only, with cross reference to this author made from entries to other authors. Book reviews are distinguished from articles by the letter B after the page number.

A

- Aagaard P, see Bandholm T
 Aaron R, see Esper GJ
 Aartsma-Rus A, Van Deutekom JCT, Fokkema IF, Van Ommen G-JB, Den Dunnen JT: Entries in the Leiden Duchenne muscular dystrophy mutation database: an overview of mutation types and paradoxical cases that confirm the reading-frame rule, 135
 Abou-Sleiman PM, See Marques VD
 Aguilar J-L, see Dupuis L
 Akamatsu M, see Ogawa T
 Akima H, see Ogawa T
 Alaedini A, see Brannagan TH
 Albers JW, see Gruis KL
 Alkner B, see Pozzo M
 Allen DC, Smallman CA, Mills KR: Multifocal acquired demyelinating sensory and motor neuropathy presenting as a peripheral nerve tumor, 373
 Allen RE, see Yamada M
 Alway SE, see Krajnak K; Smith CA
 Amato AA, see Greenberg SA
 Aminoff MJ: Book Review, 672
 Amrani KK, see Ladha SS
 Appel SH, see Czaplinski A
 Arbogast S, see Durham WJ
 Askmark H, see Punga AR
 Attarian S, Pouget J, Schmied A: Covariation of corticospinal efficiency and silent period in motoneuron diseases, 178
 Avni I, Sharabi Y, Sadeh M, Buchman AS: Eosinophilia, myositis, and myasthenia gravis associated with a thymoma, 242
 Aydogdu I, see Ertekin C

B

- Bachrach E, Perez AL, Choi Y-H, Illigens BMW, Jun SJ, del Nido P, McGowan FX, Li S, Flint A, Chamberlain J, Kunkel LM: Muscle engraftment of myogenic progenitor cells following intraarterial transplantation, 44

- Bademkiran F, see Ertekin C
 Bain J-LW, see Govindaraju SR
 Bai R-K, see Gambello MJ
 Baker B, see Krajnak K
 Baker SK, Tarnopolsky MA: Sporadic rippling muscle disease unmasked by simvastatin, 478
 Baltzopoulos V, see Bampouras TM
 Bampouras TM, Reeves ND, Baltzopoulos V, Maganaris CN: Muscle activation assessment: effects of method, stimulus number, and joint angle, 740
 Bandholm T, Rasmussen L, Aagaard P, Jensen BR, Diederichsen L: Force steadiness, muscle activity and maximal muscle strength in subjects with subacromial impingement syndrome, 631
 Banner SJ, see Koistinen H
 Barboi AC, see Vladutiu GD
 Barker T, see Widrick JJ
 Barkhaus PE, Nandedkar SD: Letter to Editor, 799
 Barreira AA, See Marques VD
 Bellas E, See Padera RF
 Benatar M, 131
 Benatar M: Distal symmetric polyneuropathy: limitations of the proposed case definition, 131
 Benatar M, Hammad M, Doss-Riney H: Concentric-needle single-fiber electromyography for the diagnosis of myasthenia gravis, 163
 Bendszus M, see Wessig C
 Bilodeau M: Central fatigue in continuous and intermittent contractions of triceps brachii, 205
 Bird SJ, Brown MJ, Spino C, Watling S: Value of repeated measures of nerve conduction and quantitative sensory testing in a diabetic neuropathy trial, 214
 Billings KM, see Warren GL
 Blumenthal S, Herskovitz S, Verghese J: Carpal tunnel syndrome in older adults, 78
 Boesch S, see Wanshitz J
 Bogardt E, Van Damme P, Van Den Bosch L, Robberecht W: Vascular endothelial growth factor in

- amyotrophic lateral sclerosis and other neurodegenerative diseases, 391
 Boonyapisit K, See Liewluck T
 Brady RO, see Schimman R
 Brannagan TH, Alaedini A, Gladstone DE: High-dose cyclophosphamide without stem cell rescue for refractory multifocal motor neuropathy, 246
 Bresolin N, See D'Angelo MG
 Brown MJ, see Bird SJ
 Brown RH, See Shefner JM
 Brunet D, see Dionne A
 Buchman AS, see Avni I
 Budka H, see Wanshitz J
 Bushnell C, See Cole J

C

- Call JA, see Wolff AV
 Campbell WW: Statin myopathy: the iceberg or its tip?, 387
 Capasso M, see Caporale CM
 Caporale CM, Capasso M, Ragno M, Di Muzio A, Uncini A: Lewis-Sumner syndrome in hepatitis C virus infection: a possible pathogenetic association with therapeutic problems, 116
 de Carvalho M, Galdes R: Letter to Editor, 670
 Chamberlain J, see Bachrach E
 Chang Y-J, see Shields RK
 Chattopadhyay AK, See Hadjivassiliou M
 Cheng G, See Rowin J
 Chen R, See Espay AJ
 Chen T-J, see Gambello MJ
 Chetlin RD, See Smith CA
 Childers CK, see Markert C
 Childers MK, see Markert C
 Choi H, see Frontera WR
 Choi Y-H, see Bachrach E
 Clarkson PM, see Warren GL
 Cleland J, see Stanton M
 Colarossi FE, See Plant DR
 Cole J, Bushnell C, McGlone F, Elam M, Lamaree Y, Valbo A, Olausson H: Unmyelinated tactile afferents underpin detection of low-force monofilaments, 105
 Côté CH, see Sacy D

Cudkiewicz M, See Shefner JM
Curry BD, see Govindaraju SR
Cutlip RG, See Krajnak K
Czaplinski A, Yen AA, Simpson EP, Appel
SH: Predictability of disease progression
in amyotrophic lateral sclerosis, 702

D

D'Angelo MG, Bresolin N: Cognitive
impairment in neuromuscular
disorders, 16
Danon MJ, See Oh SJ
Date ES, Kim BJ, Yoon JS, Park BK:
Cervical paraspinal spontaneous activity
in asymptomatic subjects, 361
Daube JR, see Henderson RD; Sorenson
EJ
Davies-Jones AGB, See Hadjivassiliou M
Davis MB, See Marques VD
DeAngelis T, see Lange DJ
Debska-Vielhaber G, see Vielhaber S
Delano MC, See Slade JM
Delliaux S, Jammes Y: Effects of hypoxia
on muscle response to tendon vibration
in humans, 754
del Nido P, see Bachrach E
Den Dunnen JT, see Aartsma-Rus A
Dhaer YY, See Lewek MD
Dhand UK: Isaacs' syndrome: Clinical and
electrophysiological response to
gabapentin, 646
Dichtl W, see Wanshitz J
Diederichsen L, See Bandholm T
Dimachkie M, see Gambello MJ
DiMauro S, See Oh SJ
DiMauro S, Hirano M, Schon EA:
Approaches to the treatment of
mitochondrial diseases, 265
Di Muzio A, see Caporale CM
Dingvall C, see Koistinen H
Dionne A, Brunet D: A case of Lewis-
Sumner syndrome with conduction
abnormalities only in the brachial
plexus and roots, 489
Doss-Riney H, see Benatar M
Draviam RA, Shand SH, Watkins SC: The
b-cl-core of sarcoglycan is essential for
deposition at the plasma membrane,
691
Drost G, See Hengstman GJD
Dudley-Javoroski S, see Shields RK
Dumitru D, Martinez CTJ: Propagated
insertional activity: a model of positive
sharp wave generation, 457
Dupuis L, de Aguilar J-L, Echaniz-Laguna
A, Loeffler J-P: Letter to Editor, 253
Durham WJ, Arbogast S, Gerken E, Li
Y-P, Reid MB: Progressive nuclear
factor-kB activation resistant to
inhibition by contraction and curcumin
in *mex* mice, 298
Dyck PJB, See Ladha SS

E

Echaniz-Laguna A, See Dupuis L
Eguchi H, Tsujino A, Kaibara M, Hayashi
H, Shirabe S, Taniyama K, Eguchi K:
Acetazolamide acts directly on the

human skeletal muscle chloride
channel, 292
Eguchi K, see Eguchi H
Elam M, See Cole J
Van Engelen BGM, See Hengstman GJD
Ertekin C, Bademkiran F, Tataroglu C,
Aydogdu I, Karapinar N: Adductor T
and H reflexes in humans, 640
Espay AJ, Chen R: Rigidity and spasms
from autoimmune
encephalomyelopathies: stiff-person
syndrome, 677
Esper GJ, Shiffman CA, Aaron R, Lee KS,
Rutkove SB: Assessing neuromuscular
disease with multifrequency electrical
impedance myography, 595
Evans NP, see Wolff AV

F

Fallon JR, see Lechner BE
Faraina D, see Pozzo M
Fazan V, See Marques VD
Fealey RD, see Low VA
Flink R, see Punga AR
Flint A, see Bachrach E
Fokkema IF, see Aartsma-Rus A
Frankhuizen WS, See Reijneveld JC
Freeman B, see Schimman R
Frontera WR, Choi H, Krishnan G,
Krivickas LS, Sabharwal S, Teng YD:
Single muscle fiber size and
contractility after spinal cord injury in
rats, 101
Fukunaga T, see Ogawa T
Fukuoka H, see Ogawa T
Furochi H, see Ogawa T

G

Gambello MJ, Bai R-K, Chen T-J,
Dimachkie M, Wong LJC: Exercise
intolerance associated with a novel
8300TC mutation in mitochondrial
transfer RNA, 380, 437
Gaul C, see Vielhaber S
Geraldes R, See Carvalho M
Gerken E, see Durham WJ
Geronilla K, See Krajnak K
Ginanneschi F, Rossi A: Letter to Editor,
504
Ginjaar IB, See Reijneveld JC
Gladstone DE, see Brannagan TH
Goebel H, see Kaimakchiev V
Gold R, See Schneider-Gold C
Govindaraju SR, Curry BD, Bain JLW,
Riley DA: Comparison of continuous
and intermittent vibration effects on
rat-tail artery and nerve, 197
Granata KP, see Wolff AV
Grange RW, see Lowe DA; Wolff AV
Greenberg SA, Pinkus JL, Amato AA:
Nuclear membrane proteins are
present within rimmed vacuoles in
inclusion-body myositis, 406
Gruis KL, Little AA, Zebarah VA, Albers
JW: Survey of electrodiagnostic
laboratories regarding hemorrhagic
complications from needle
electromyography, 356

Grünewald RA, See Hadjivassiliou M
Gutmann L, See Smith CA

H

Hadjivassiliou M, Kandler RH,
Chattopadhyay AK, Davies-Jones AGB,
Jarratt JA, Sanders DS, Sharrack B,
Grünewald RA: Dietary treatment of
gluten neuropathy, 762
Hamadeh MJ, Tarnopolsky MA: Transient
caloric restriction in early adulthood
hastens disease endpoint in male, but
not female, Cu/zinc-SOD mutant G93A
mice, 709
Hammad M, see Benatar M
Harper A, see Koistinen H
Hartung HP, See Schneider-Gold C
Hattori T, See Iwata Y
Hauer P, see Schimman R
Hayashi H, see Eguchi H
Hayashi YK, See Liewluck T
Heinze H-J, see Vielhaber S
Henderson RD, Ridall GR, Pettitt AN,
McCombe PA, Daube JR: The stimulus-
response curve and motor unit
variability in normal subjects and
subjects with amyotrophic lateral
sclerosis, 34
Hermann DN, see Stanton M
Herskovitz S, see Blumenthal S
Hirano M, see Dimauro S
Hirasaka K, see Ogawa T
Hirata H, See Iwata Y
Hoey AJ, see Van Erp C
Horch KW, see Olree KS
Horii E, See Iwata Y
Hornby TG, See Lewek MD

I

Ikeuchi Y, see Yamada M
Illigens BMW, see Bachrach E
Irwin NG, see Van Erp C
Isackson PJ, see Vladutiu GD
Ishidoh K, see Ogawa T
Ishiguro N, See Iwata Y
Iwata Y, Ozaki N, Hirata H, Sugiyama Y,
Horii E, Nakao E, Tatebe M, Yazaki N,
Hattori T, Majima M, Ishiguro N:
Fibroblast growth factor-2 enhances
functional recovery of reinnervated
muscle, 623
Iwaz J, See Puget M

J

Jakubiczka S, see Vielhaber S
Jammes Y, See Delliaux S
Jarratt JA, See Hadjivassiliou M
Jensen BR, See Bandholm T
Jobin J, see Saey D
Jones HR, see Srinivasan J
Jung P, Ziemann U: Differences of the
ipsilateral silent period in small hand
muscles, 431
Jun SJ, see Bachrach E

K

- Kaibara M, see Eguchi H
 Kaimakchiev V, Goebel H, Laing N,
 Narus M, Weeks D, Nixon R:
 Intracellular nemaline rod myopathy,
 369
 Kaji R, See Nodera H
 Kandler RH, See Hadjivassiliou M
 Karapinar N, See Ertekin C
 Kaufmann J, see Vielhaber S
 Kendall R, Werner RA: Interrater
 reliability of the needle examination in
 lumbosacral radiculopathy, 238
 Kenn W, see Wessig C
 Kikuri T, see Yamada M
 Kim B-J, see Date ES
 Kishi K, see Ogawa T
 Kohane DS, See Padera RF
 Koistinen H, Prinjha R, Soden P, Harper
 A, Banner SJ, Pradat P-F, Loeffler J-P,
 Dingwall C: Elevated levels of amyloid
 precursor protein in muscle of patients
 with amyotrophic lateral sclerosis and a
 mouse model of the disease, 444
 Koltzenburg M, see Wessig C
 Kouyoumdjian JA: Peripheral nerve
 injuries: a retrospective survey of 456
 cases, 785
 Krajnak K, Waugh S, Miller R, Baker B,
 Geronilla K, Alway SE, Cutlip RG:
 Proapoptotic factor bax is increased in
 satellite cells in the tibialis anterior
 muscles of old rats, 720
 Kreulen M, see Smeulders MJC
 Krishnan G, see Frontera WR
 Krivickas LS, see Frontera WR
 Kunkel LM, see Bachrach E

L

- Ladha SS, Spinner RJ, Suarez GA,
 Anrami KK, Dyck PJB: Neoplastic
 lumbosacral radiculoplexopathy in
 prostate cancer by direct perineural
 spread: an unusual entity, 659
 Laing N, see Kaimakchiev V
 Lamaree Y, See Cole J
 Lange DJ, DeAngelis T, Sivak MA: Single-
 fiber electromyography shows terminal
 axon dysfunction in Miller Fisher
 syndrome, 232
 Laskin JL, See Li S
 Laviolette L, see Sacy D
 LeBlanc P, see Sacy D
 Lechner BE, Lim JH, Mercado ML, Fallon
 JR: Developmental regulation of
 biglycan expression in muscle and
 tendon, 347
 Lee S, See Esper GJ
 Lewek MD, Schmit BD, Hornby TG,
 Dhaher YY: Hip joint position
 modulates volitional knee extensor
 muscle activity after stroke, 767
 Lewis RA, see Stanton M
 Lewis SL, See Rowin J
 Liewluck T, Theeraphong P-I, Limwongse
 C, Thongnoppakum W, Boonyapisit K,
 Raksadawan N, Murayama K, Hayashi
 YK, Nishino I, Sangruchi T: Mutation
 analysis of the *GNE* gene in distal

myopathy with rimmed vacuoles
 (DMRV) patients in Thailand, 775

- Lim JH, see Lechner BE
 Limwongse C, See Liewluck T
 Lin C-H, see Shields RK
 Li S, see Bachrach E
 Li S, Laskin JL: Influences of ventilation
 on maximal isometric force of the
 finger flexors, 651
 Little AA, see Gruis KL
 Li Y-P, See Durham WJ
 Loeffler J-P, See Dupuis L; Koistinen H
 Logigian EL, see Stanton M
 Lopate G, See Wehl CC
 Löscher WN, see Wanshitz J
 Lotti M, Moretto A: Do carbamates cause
 polyneuropathy?, 499
 Lowe DA, Williams BO, Thomas DD,
 Grange RW: Molecular and cellular
 contractile dysfunction of dystrophic
 muscle from young mice, 92
 Low PA, see Low VA
 Low VA, Sandroni P, Fealey RD, Low PA:
 Detection of small-fiber neuropathy by
 sudomotor testing, 57
 Lu J, See Oh SJ
 Lu Y, See Navar D
 Lynch GS, See Plant DR

M

- Mador MJ, see Sacy D
 Majima M, See Iwata Y
 Maltais F, see Sacy D
 Mameoka M, see Ogawa T
 Markert C, Petroski GF, Childers CK,
 McDonald KS, Childers MK: Stretch-
 induced force deficits in murine
 extensor digitorum longus muscles
 after cardiotoxin injection, 485
 Marques MJ, Pereira ECL, Minatel E,
 Neto HS: Nerve-terminal and Schwann-
 cell response after nerve injury in the
 absence of nitric oxide, 225
 Marques VD, Barreira AA, Davis MB,
 Abou-Sleiman, PM, Silva WA, Zago MA,
 Sobreira C, Fazan V, Marques W:
 Expanding the phenotypes of the
 pro56ser *vapb* mutation: proximal sma
 with dysautonomia, 731
 Marques W, See Marques VD
 Martinez TJ, see Dumitru D
 Massey EW, see Stückler DE
 McArthur JC, see Schimman R
 McCombe PA, see Henderson RD
 McDonald KS, see Markert C
 McGlone F, See Cole J
 McGowan FX, see Bachrach E
 Mercado ML, see Lechner BE
 Meriggioli MN, See Rowin J
 Meyer RA, See Slade JM
 Miller R, See Krajnak K
 Mills KR, see Allen DC
 Minatel E, see Marques MJ
 Mizumoya W, see Yamada M
 Moretto A, see Lotti M
 Morley KN, see Stückler DE
 Murayama K, See Liewluck T

N

- Naguib D, see Stanton M
 Naini AB, See Oh SJ
 Nakao E, See Iwata Y
 Nandedkar SD, See Barkhaus PE
 Narus M, see Kaimakchiev V
 Neto HS, see Marques MJ
 Newham DJ, see Rankin G
 Niday AK, see Wolff AV
 Niessen HG, see Vielhaber S
 Nikawa T, see Ogawa T
 Nishino I, See Liewluck T
 Nixon R, see Kaimakchiev V
 Nodera H, Sato K, Terasaw Y, Takamatsu
 N, Kaji R, 380
 Norrbrand L, see Pozzo M
 Notermans NC, See Reijneveld JC

O

- Oarada M, see Ogawa T
 O'Farrell L, see Warren GL
 Ogawa S, See Takahashi N
 Ogawa T, Furochi H, Mameoka M,
 Hirasaka K, Onishi Y, Suzue N, Oarada
 M, Akamatsu M, Akima H, Fukunaga T,
 Kishi K, Yasui N, Ishidoh K, Fukuoka
 H, Nikawa T: Ubiquitin ligase gene
 expression in healthy volunteers with
 20-day bedrest, 463
 Oh SJ, Park K-S, Ryan HF, Danon MJ, Lu
 J, Naini AB, DiMauro S: Exercise-
 induced cramp, myoglobinuria, and
 tubular aggregates in phosphoglycerate
 mutase deficiency, 572
 Okamoto S, see Yamada M
 Olausson H, See Cole J
 Olree KS, Horsch KW: Differential
 activation and block of peripheral
 nerve fibers by magnetic fields, 189
 Onishi Y, see Ogawa T
 Ozaki N, See Iwata Y

P

- Paccillo, O, See Shelton GD
 Padera RF, Tse JY, Bellas E, Kohane DS:
 Tetrodotoxin for prolonged local
 anesthesia with minimal myotoxicity,
 747
 Pannoni V, see Stanton M
 Park BK, see Date ES
 Park K-S, See Oh SJ
 Peltier WL, see Vladutiu GD
 Pereira ECL, see Marques MJ
 Perez AL, see Bachrach E
 Perret C, see Verges S
 Petroski GF, see Markert C
 Pettit AN, see Henderson RD
 Phillips PS, see Vladutiu GD
 Pinkus JL, see Greenberg SA
 Plant DR, Colarossi FE, Lynch GS:
 Notexin causes greater myotoxic
 damage and slower functional repair in
 mouse skeletal muscles than
 bupivacaine, 577
 Polydefkis M, see Schimman R
 Pouget J, see Attarian S
 Pozzo M, Alkner B, Norrbrand L, Farina

- D. Tesch PA: Muscle-fiber conduction velocity during concentric and eccentric actions on a flywheel exercise device, 169
- Pradat P-F, see Koistinen H
- Prinjha R, see Koistinen H
- Proske U: Kinesthesia: the role of muscle receptors, 545
- Puget M, Iwaz J, Tristan A, Streichenberger N: Whipple's disease with muscle impairment, 794
- Punga AR, Flink R, Askmark H, Stalberg EV: Cholinergic neuromuscular hyperactivity in patients with myasthenia gravis seropositive for MuSK antibody, 111

R

- Ragno M, see Caporale CM
- Raksadawan N, see Liewluck T
- Ralph JW, 124B
- Ralph JW: Book Review, 124
- Rankin G, Stokes M, Newham DJ: Abdominal muscle size and symmetry in normal subjects, 320
- Rasmussen L, see Bandholm T
- Reeves ND, see Bampouras TM
- Reid MB, see Durham WJ
- Reijnenveld JC, Frankhuizen WS, Ginjaar IB, Notermans NC: CAV3 gene mutation analysis in patients with idiopathic hyperCKemia, 656
- Ridall GR, see Henderson RD
- Ries M, see Schimman R
- Riley DA, see Govindaraju SR
- Robberecht W, see Bogaert E
- Rodnar S, Zidar J: Sensitivity of motor unit potential analysis in facioscapulohumeral muscular dystrophy, 451
- Rogers KR, see Warren GL
- Rosenbaum RB, see Sax TW
- Rowin J, Cheng G, Lewis SL, Meriggioli MN: Late appearance of dropped head syndrome after radiotherapy for Hodgkin's disease, 666
- Ruff RL: Sour on the inside, calm on the outside: how acetazolamide may stabilize membrane excitability, 263
- Russell JA, see Srinivasan J
- Rutkove SB, see Esper GJ
- Ryan HE, see Oh SJ

S

- Sabharwal S, see Frontera WR
- Saleh M, see Anni I
- Saeed D, Côté CH, Mador MJ, Laviolette L, LeBlanc P, Jobin J, Maltais F: Assessment of muscle fatigue during exercise in chronic obstructive pulmonary disease, 62
- Saleh F, see Srinivasan J
- Sanders DS, see Hadjivassiliou M
- Sandroni P, see Low VA
- Sangruchi T, see Liewluck T
- Sato K, see Nodera H
- Sax TW, Rosenbaum RB: Neuromuscular Disorders in pregnancy, 559

- Sayers SP, see Warren GL
- Scala S, see Srinivasan J
- Schiffmann R, Hauer P, Freeman B, Ries M, Scott LJC, Polydefkis M, Brady RO, McArthur JC, Wagner K: Enzyme replacement therapy and intraepidermal innervation density in Fabry disease, 53
- Schmied A, see Attarian S
- Schmit BD, see Lewek MD
- Schneider-Gold C, Hartung H-P, Gold R: Mycophenolate mofetil and tacrolimus: new therapeutic options in neuroimmunological diseases, 284
- Schoenfeld MA, see Vielhaber S
- Schon EA, see Dimauro S
- Schulz C, see Verges S
- Scott LJC, see Schimman R
- Shand SH, see Draviam RA
- Sharabi Y, see Anni I
- Sharrack B, see Hadjivassiliou M
- Shefner JM, Cudkowicz M, Brown RH: Motor unit number estimation predicts disease onset and survival in a transgenic mouse model of amyotrophic lateral sclerosis, 603
- Shelton GD, Paccillo O: Letter to Editor, 122
- Shields RK, Chang Y-J, Dudley-Javoroski S, Lin C-H: Predictive model of muscle fatigue after spinal cord injury in humans, 84
- Shiffman CA, see Esper GJ
- Shimokawa H, see Yamada M
- Shirabe S, see Eguchi H
- Shy ME, see Stanton M
- Silvado CE, Werneck LC: Alterations in the gastrocnemius muscle of undernourished suckling rats, 72
- Silva WA, see Marques VD
- Simmons Z, see Vladutiu GD
- Simpson EP, see Czaplinski A
- Sivak MA, see Lange DJ
- Slade JM, Delano MC, Meyer RA: Elevated skeletal muscle phosphodiesterases in adults using statin medications, 782
- Smallman CA, see Allen DC
- Smeulders MJC, Kreulen M: Adaptation of the properties of spastic muscle with wrist extension deformity, 365
- Smith CA, Chetlin RD, Gutmann L, Yeater RA, Alway SE: Effects of exercise and creatine on myosin heavy chain isoform composition in patients with Charcot-Marie-Tooth disease, 586
- Sobreira C, see Marques VD
- Soden P, see Koistinen H
- Solomonow M, see Navar D
- Sorenson EJ, Daube JR, Windebank AJ: Motor unit number estimates correlate with strength in polio survivors, 608
- Spengler CM, see Verges S
- Spinner RJ, see Ladha SS
- Spino C, see Bird SJ
- Srinivasan J, Scala S, Jones HR, Saleh F, Russell JA: Inappropriate surgeries resulting from misdiagnosis of early amyotrophic lateral sclerosis, 359
- Sripathi N, see Vladutiu GD
- Stalberg EV, see Punga AR
- Stanton M, Pannoni V, Lewis RA,

- Loggigan EL, Naguib D, Shy ME, Cleland J, Hermann DN: Dispersion of compound muscle action potential in hereditary neuropathies and chronic inflammatory demyelinating polyneuropathy, 417
- Steele J, see Verma A
- Stückler DE, Morley KN, Massey EW: Sural neuropathy: etiologies and predisposing factors, 482
- Stokes M, see Rankin G
- Streichenberger N, see Puget M
- Suarez GA, see Ladha SS
- Sugiura Y, see Iwata Y
- Sunagawa K, see Yamada M
- Suzue N, see Ogawa T

T

- Takahashi M, see Takahashi N
- Takahashi N, Takahashi O, Ogawa S, Takahashi M: What is the origin of the premotor potential recorded from the second lumbrical?, 779
- Takahashi O, see Takahashi N
- Takamatsu N, see Nodera H
- Taniyama K, see Eguchi H
- Tarnopolsky M, see Vladutiu GD
- Tarnopolsky MA, see Baker SK: Hamadeh MJ
- Tataroglu C, see Ertekin C
- Tatebe M, see Iwata Y
- Tatsumi R, see Yamada M
- Tawil R, Van Der Maarel SM: Facioscapulohumeral muscular dystrophy, 1
- Teng YD, see Frontera WR
- Terasawa Y, see Nodera H
- Tesch PA, see Pozzo M
- Theeraphong P-I, see Liewluck T
- Thomas DD, see Lowe DA
- Thongpookpakum W, see Liewluck T
- Tristan A, see Puget M
- Tse JY, see Padera RF
- Tsujiro A, see Eguchi H

U

- Uncini A, see Caporale CM

V

- Valbo A, see Cole J
- Van Damme P, see Bogaert E
- Van Den Bosch L, see Bogaert E
- Van Der Maarel SM, see Tawil R
- Van Deutekom JCT, see Aartsma-Rus A
- Van Erp C, Irwin NG, Hoey AJ: Long-term administration of pirfenidone improves cardiac function in *mdx* mice, 327
- Van Ommen G-JB, see Aartsma-Rus A
- Verges S, Schulz C, Perret C, Spengler CM: Impaired abdominal muscle contractility after high-intensity exhaustive exercise assessed by magnetic stimulation, 423
- Verghese J, see Blumenthal S
- Verma A, Steele J: Botulinum toxin

improves sialorrhea and quality of living in bulbar amyotrophic lateral sclerosis, 235

Vielhaber S, Jakubiczka S, Gaul C, Schoenfeld MA, Debska-Vielhaber G, Zier S, Heinze H-J, Niessen HG, Kaufmann J: Brain ¹H magnetic resonance spectroscopic differences in myotonic dystrophy type 2 and type 1, 145

Vladutiu GD, Simmons Z, Isackson PJ, Tarnopolsky M, Peltier WL, Barboi AC, Sripathi N, Wortmann RL, Phillips PS: Genetic risk factors associated with lipid-lowering drug-induced myopathies, 153

Voelker DA, see Wolff AV

W

Wagenaar M, see Hengstman GJD

Wagner K, see Schimman R

Wanschitz J, Dichtl W, Budka H, Löscher WN, Boesch S: Acute motor and sensory axonal neuropathy in Burkitt-like lymphoma, 494

Warren GL, O'Farrell L, Rogers KR,

Billings KM, Sayers SP, Clarkson PM: CK-MM autoantibodies: prevalence, immune complexes, and effect on CK clearance, 335

Watkins SC, see Draviam RA

Watling S, see Bird SJ

Waugh S, see Krajnak K

Weeks D, see Kaimaktchiev V

Weihl CC, Lopate G: Motor neuron disease associated with copper deficiency, 789

Werneck LC, see Silvado CE

Werner RA, see Kendall R

Wessig C, Kenn W, Koltzenburg M, Bendszus M: Denervation hypertrophy may mimic local tumor spread on magnetic resonance imaging, 108

Widrick JJ, Barker T: Peak power of muscles injured by lengthening contractions, 470

Williams BO, see Lowe DA

Windebank AJ, see Sorenson EJ

Wolff AV, Niday AK, Voelker KA, Call JA, Evans NP, Granata KP, Grange RW: Passive mechanical properties of maturing extensor digitorum longus are not affected by lack of dystrophin, 304

Wong L-JC, see Gambello MJ

Wortmann RL, see Vladutiu GD

Y

Yamada M, Tatsumi R, Kikuri T,

Okamoto S, Nonoshita S, Mizunoya W, Ikeuchi Y, Shimokawa H, Sunagawa K, Allen RE: Matrix metalloproteinases are involved in mechanical stretch-induced activation of skeletal muscle satellite cells, 313

Yasui N, see Ogawa T

Yazaki N, see Iwata Y

Yeater RA, see Smith CA

Yen AA, see Czaplinski A

Yoon JS, see Date ES

Z

Zago MA, see Marques VD

Zebarah VA, see Gruis KL

Zhou B-H, see Navar D

Zidar J, see Rodnar S

Ziemann U, see Jung P

Zierz S, see Vielhaber S

SUBJECT INDEX TO VOLUME 34

This index gives the first page of the article in which the indexed subject occurs.

A

- Abdominal muscle contractility and exhaustive exercise, 423
- Abdominal muscle size, 320
- Abductor pollicis brevis muscle (APB), 431
- A-beta somatosensory system, 105
- Acetazolamide, 263, 292
- Acetylcholine sensitivity, 111
- Acetylcholinesterase (AChE), 499
- Acquired neuropathy, 417
- ACTA1 mutations, 369
- Actin, 369
- Activation capacity, 740
- Adductor T and H reflexes, in lumbar root disease, 640
- A-delta afferents, 105
- Adult polyglucosan body disease and cognition, 16
- Age-related changes satellite-cell proliferation, 720
- Aging and multifrequency EIM, 595
- Aldose reductase inhibitors, 205
- Amyloid precursor levels in ALS, 444
- Amyotrophic lateral sclerosis (ALS), 178, 253
 - amyloid precursor levels, 444
 - bulbar, 235
 - and caloric restriction, 709
 - and cognition, 16
 - copper deficiency, 789
 - misdiagnosis, 359
 - motor unit variability, 34
 - multifrequency electrical impedance myography, 595
 - MUNE, 603
 - muscle strength testing and, 702
 - predictability of progression, 702
 - vascular endothelial growth factor, 391
- Anhidrosis, 57
- Anticoagulant patients, 347
- Apnea, 754
- Apoptosis, 720
- Autoimmune disease, 246
 - encephalomyopathies, 677
- Axonal degeneration, 494
- Axonal neuropathy dietary treatment for, 762

B

- Becker muscular dystrophy, 16
 - mutation database entries, 135
- Biceps brachii, and MUP analysis, 451
- Biglycan developmental regulation, 347
- Book reviews
 - Handbook of Peripheral Neuropathy*, 124
 - Neurological Disorders in Famous Artists*, 672
- Botulinum toxin, 235
- Brachial plexus and roots, demyelinating neuropathy in, 489
- Bupivacaine and muscle regeneration, 577
- Burkitt-like lymphoma (BLI) vincristine, 494

C

- Calf neuropathy, 503
- Calf numbness, 503
- Caloric restriction and disease endpoint, 709
- Canine inflammatory myopathies, 122
- Carbamates and polyneuropathy, 499
- Carcinomatous neuropathy, 659
- Cardiotoxin and force deficits, 485
- Carnitine palmitoyltransferase deficiency, 153
- Carpal tunnel syndrome, in elderly adults, 78
- Caveolar function disruption, 478
- Caveolin-3 deficiency, 656
- CAV3 gene mutation analysis hyper-CK-emia, 656
- Celiac disease, 762
- Cell and gene therapy
 - Duchenne muscular dystrophy, 44
- Cell transplantation, 44
- Central activation ratio (CAR), 740
- Central fatigue and rest periods, 205
- Cerebral metabolite changes, in myotonic dystrophy, 145
- Cerebral protein expression, 16
- Cervical radiculopathy, 361
- C-fiber afferents, 105

- Charcot-Marie-Tooth disease, 417
 - and creatine supplementation, 586
- Chemically-skinned single muscle fibers, 101
- Chloride conductance, 292
- Cholinergic overdose, 111
- Chromosome 4
 - in facioscapulohumeral dystrophy, 1
- Chronic inflammatory demyelinating polyradiculoneuropathy, 373, 417, 489
- Chronic obstructive pulmonary disease (COPD) and muscle fatigue, 62
- CK-mm autoantibodies, 335
- Coat's syndrome, 1
- Coenzyme Q10 (CoQ10), 265
- Cognitive impairment and peripheral nervous system disease, 16
- Collagen VI, 347
- Composite Autonomic Severity Score (CASS), 57
- Compound muscle action potential (CMAP), 34
- Compression neuropathy, 78
- Concentric and eccentric actions, 169
- Concentric-needle single-fiber electromyography, 163
- Conduction block, 246
 - MADSAM, 489
- Conduction velocity, muscle fiber, 169
- Congenital myopathies, 369
 - and cognition, 16
- Contractility, 577
 - contraction-induced muscle injury, 470
 - of EDL, 485
 - and fibroblast growth factor-2, 623
 - leg fatigue, and COPD, 62
 - protein alterations, 92
- Contraction-induced injury, 420, 720
- Contusion, 101
- Copper deficiency, and motor neuron disease, 789
- Corpus callosum, 431
- Cortically induced silent period, 178
- Corticospinal efficiency, 178
- Corticospinal pathway mediation, of ipsilateral silent period, 431
- Cramping and phosphoglycerate mutase deficiency, 572

Creatine kinase, 656
 clearance rate, 335
 Creatine supplementation
 and myosin heavy chain, 586
 Cumulative trauma disorder
 lumbar, 614
 Cu/Zn superoxide dismutase 1 (SOD1),
 444
 Cycle exercise
 and pulmonary disease, 62
 Cyclophosphamide, 246
 Cystic bursitis, 503

D

Damping, 304, 747
 Dematopathy, 762
 Demyelinating neuropathy, 417
 brachial plexus and roots, 489
 and Charcot-Marie-Tooth disease, 586
 Denervation hypertrophy, 108
 Denervation hypotrophy, 463
 Dermatitis herpetiformis, 762
 Diabetes
 and stiff-person syndrome, 677
 and VEGF, 391
 Diabetic neuropathy, 205, 417
 Differential activation, 189
 Disease endpoint,
 caloric restriction, 709
 Disease identification, 731
 Disease progression, 702
 Distal compound muscle action potential
 dispersion, 417
 Distal myasthenia gravis, 670
 Distal myopathy with rimmed vacuoles,
 775
 Distal small-fiber neuropathy, 57
 Distal symmetric polyneuropathy,
 case definition of, 131
 Drooling, 235
 Dropped head syndrome, 666
 Drug-induced myopathies, 153
 Duchenne muscular dystrophy, 16, 44
 and extensor digitorum longus, 304
 and force deficit, 92
 and long-term pirfenidone, 327
 mutation database entries, 135
 nitric oxide synthase and, 225
 Dynamic muscle control software, 304
 Dysautonomia, 731
 Dysimmune polyneuropathy, 284
 Dysphagia, post-radiation therapy, 666
 Dystrophin, 135, 304
 Dystrophin-associated protein complex,
 347

E

Eccentric actions, 169
 Electrical impedance myography,
 multifrequency, 595
 Electrical stimulation, 740
 and spinal cord injury, 84
 Electrodiagnostic criteria,
 of sural neuropathy, 482
 for temporal dispersion, 417
 Electromyography, 108, 785
 central fatigue, 205
 hemorrhagic complications from, 347

Miller Fisher syndrome, 232
 muscle fatigue assessment, 62
 quantitative, 451
 radiculopathy, 238
 single fiber, 163
 surface, and muscle-fiber conduction
 velocity, 169
 Electron paramagnetic resonance
 spectroscopy, 92
 Encephalomyelopathies, 677
 Endurance
 and post-exercise impairment, 423
 Enhanced green fluorescent protein, 691
 Enteropathy, 762
 Entrapment neuropathy, 78. *See also*
 individual neuropathies
 Enzyme replacement therapy, in Fabry
 disease, 53
 Epidermal innervation, 53
 Exercise
 in Charcot-Marie-Tooth disease, with
 creatine supplementation, 586
 exhaustive, 423
 impaired abdominal muscle
 contractility after, 423
 Exercise-induced cramp
 and phosphoglycerate mutase
 deficiency, 572
 Exercise intolerance
 and pulmonary disease, 62
 8300T<C mutation, 437
 Extensor digitorum longus
 and Duchenne dystrophy, 304
 and notexin and bupivacaine, 577

F

Fabry disease
 and enzyme replacement therapy, 53
 Facioscapulohumeral muscular dystrophy,
 1
 motor unit potential analysis, 451
 Fatigability and space flight, 169
 Fatigue, 423. *See also* muscle fatigue and
 kinesthetic sense, 545
 Femoral nerve, 640
 Fibrillation potentials, 361
 Fibroblast growth factor-2
 and muscle recovery, 623
 Fibrosis, 327
 Finger flexors
 isometric force, 651
 First dorsal interosseous muscle, 431
 FK 506, 284
 Flexor carpi ulnaris muscle transfer, 365
 Flywheel exercise device, 169
 Force deficit, 92
 and lengthening contraction, 470
 stretch-induced, 485
 Force production, 651
 Force steadiness and subacromial
 impingement syndrome, 631
 Functional muscle recovery
 fibroblast growth factor-2, 623

G

Gabapentin, 646
 Ganglioside antibodies, 232
 Gastrocnemius muscle alterations, 72

Gastrointestinal infection, 794
 Gene shifting, 265
 Genetic counseling, 265
 Germline therapy, 265
 Glutamic acid decarboxylase, 677
 Gluten sensitivity
 dietary treatment, 762
 Glycerophosphocholine, 782
 Glycogen storage disease type X, 572
 GM1 antibodies, 246
 GQ1b antibody, 232
 Green transfer, 365
 Guillain-Barré syndrome, 494

H

Hairy skin, 105
 Hand-arm vibration syndrome, 197
 Hepatitis C virus infection (HCV), 116
 Hepatocyte growth factor, 313
 Hereditary inclusion-body myopathy, 775
 Hereditary neuropathy, 417
 Heterochromatin, 1
 High-dose cyclophosphamide, 246
 High-resolution sonography, 380
 Hip joint position, and stroke, 767
 Hodgkin's disease, and dropped head
 syndrome, 666
 H reflex, 640
 Hyper-CK-emia, 656
 Hyper eosinophilia, 242
 Hyperthyroidism, 677
 Hypertrophy, denervation and, 108
 Hypothyroidism, 677
 Hypoxia
 tendon vibration, 754

I

Iatrogenic disease, 347
 Idiopathic hyper-CK-emia, 656
 Immune complex, 335
 Immune-mediated neuropathies, 494
 Immune-related rippling muscle disease,
 387
 Immunoglobulin, 335
 Immunosuppressive drugs, 284
 Impedance myography, multifrequency,
 595
 Inclusion-body myositis
 and nuclear membrane protein, 406
 Inflammatory myopathy, 406, 747, 794
 Inspiratory muscle fatigue, 423
 Instantaneous mean power spectral
 frequency, 169
 Interferon-alpha, 116
 Interpolated twitch technique, 740
 Intraarterial delivery, of cell therapies, 44
 Intraepidermal nerve fiber density, 53
 Intracellular nemaline rod myopathy, 369
 Intravenous immunoglobulin, 116, 373
 Ipsilateral silent period, in small hand
 muscles, 431
 Isaacs' syndrome,
 Gabapentin and, 646
 Ischemia, and muscle function, 754
 Isolated sural neuropathy, 482
 Isometric force, 651, 720
 finger flexors, 651

J

Jiggle analysis, 163

K

Kennedy's disease (KD), 178
Kinesthesia, and muscle receptors, 545
Knee extensor activity, 767

L

Lactate accumulation, and muscle fatigue, 62
Lactic acidosis, 265
Lamin, 406
Lateral cutaneous neuropathy, 503
Leg fatigue, in pulmonary disease, 62
Leg numbness, 503
Leiden Duchenne dystrophy mutation database, 135
Lengthening muscle contraction, 470
Length-force characteristics, 365
Lewis-Sumner syndrome, 116, 373, 489
Likelihood ratio, 163
Limb-girdle muscular dystrophies and cognition, 16
and sarcoglycan, 691
Limb position and kinesthetic sense, 545
Lipid-lowering drug-induced myopathies, 153
Local anesthesia, tetrodotoxin and, 747
Lumbar disorder and repetitive cyclic flexion, 614
Lumbar root disease and adductor T and H reflexes, 640
Lumbosacral radiculopathy assessment, 238
Lumbosacral radiculoplexopathy, 659
Lymphoma, and neuropathy, 469

M

MADSAM, 373, 489
Magnetic peripheral nerve stimulation, 189
Magnetic resonance imaging and tumor spread detection, 108
Magnetic resonance spectroscopy and myotonic dystrophy, 145
Magnetic stimulation abdominal muscle contractility, 423
Masticatory muscle, 108
Matrix metalloproteinases, 313
Maximal muscle strength, subacromial impingement syndrome and, 631
Maximal voluntary contraction, 651, 740
McArdle disease, 153
Median nerve compression, in elderly adults, 78
Median sensory nerve action potentials, 779
Medication-induced neuropathy, 494
Membrane excitability, 263
Metabolic myopathies, 153
Metabolite changes, myotonic dystrophy and, 145
Methylation, 1

Methylcarbamates and polyneuropathy, 499
Methylprednisolone, 116
Microdystrophin, 44
Microgravity, 169
Miller Fisher syndrome, 232
Mitochondrial diseases therapy for, 265
Mitochondrial dysfunction, 253
Mitochondrial encephalomyopathies, 16
Mitochondrial myopathy, 437
Moersch-Woltman syndrome, 677
Monofilament stimuli, 105
Motor command, 545
Motor evoked potentials, 178, 431
Motor neuron disease, 178, 731; *See also* amyotrophic lateral sclerosis copper deficiency, 789 and MUNE, 608
Motor unit number estimation (MUNE) in amyotrophic lateral sclerosis, 603 in polio survivors, 608
Motor unit potential analysis, in facioscapulohumeral dystrophy, 451
Motor unit variability in ALS, 34
Movement sense, 545
MtDNA mutation, 437
Multifocal acquired demyelinating sensory and motor neuropathy (MADSAM), 373, 489
Multifocal motor neuropathy, 246, 373
Multifrequency electrical impedance myography, and amyotrophic lateral sclerosis, 595
Murine extensor digitorum longus, and cardiotoxin injection, 485
Muscle action potential dispersion, 417
Muscle activation assessment, 740
Muscle adaptation, 365
Muscle atrophy, 304, 463 in Hodgkin's disease, 666
Muscle contractility, 92, 101
Muscle development, 347
Muscle endurance properties. *See also* fatigue, exercise and spinal cord injury, 84
Muscle engraftment
Duchenne muscular dystrophy, 44
Muscle fatigue, 205 and COPD, 62 and spinal cord injury, 84
Muscle-fiber conduction velocity, 169
Muscle function, 577 quantitative, 72 and statin use, 782 and tendon transfer, 365
Muscle histochemistry, 72
Muscle injury, 298, 335 anesthesia-related, 747 Whipple's disease, 794
Muscle mass modulation and FGF2, 623
Muscle phosphoglycerate mutase deficiency (PGAM) and cramping, 572
Muscle receptors and kinesthesia, 545
Muscle recovery fibroblast growth factor-2, 623
Muscle regeneration, 313 and notexin, 577

Muscle response and hypoxia, 754
Muscle spindle, 545, 754
Muscle strength testing and amyotrophic lateral sclerosis, 702
Muscle weakness, 92
Muscular dystrophy, 298, 347 and cognition, 16 facioscapulohumeral, 1 and sarcoglycan, 691
Musculoskeletal disorder and repetitive cyclic flexion, 614 and subacromial impingement syndrome, 631
MuSK antibodies, 111
Mutase deficiency and cramping, 572
Mutation types, and Duchenne muscular dystrophy, 135
Myasthenia gravis (MG), 111, 284 diagnosis, 163 distal, 670 and pregnancy, 559 and thymoma, 242, 251
Mycophenolate mofetil (MMF), 284
Myelin damage, 197
Myelodysplastic syndrome, 789
Myoadenylate deaminase deficiency, 153
Myoglobinuria, 572
Myopathy, 782 hyper-CKemia, 656 and multifrequency electrical impedance myography, 595 and pregnancy, 559
Myosin, 92
Myosin heavy chain isoform, 101
Myosin creatine supplementation, 586
Myositis, 242, 251, 284 and multifrequency electrical impedance myography, 595 and nuclear membrane protein, 406
Myotonic dystrophy, 16 cerebral metabolite changes, 145
Myotoxicity, 747
Myotoxins, 485 and muscle regeneration, 577

N

N-acetylaspartate, 145
Needle electromyography, 457 hemorrhagic complications from, 347 reliability of, 238
Nemaline rod myopathy, 369
Neoplastic lumbosacral radiculoplexopathy, 659
Nerve blockade, 747
Nerve conduction abnormality and small-fiber neuropathy, 57
Nerve fiber activation and block, 189
Nerve injury, 225, 785
Nerve-terminal response, 225
Neurodegenerative diseases and vascular endothelial growth factor, 391
Neurofibroma, 373
Neuroimmunological diseases, 284
Neuromuscular disorders, 16, 292 CNS involvement in, 16 and mitochondrial myopathy, 437

and multifrequency electrical impedance myography, 595
 Neuromuscular disorders in pregnancy, 559
 Neuromuscular fatigue, 62
 Neuromuscular junction, 225. *See also* individual disorders of
 Neuromyotonia (Isaacs' syndrome), 646
 Neuropathy. *See also* polyneuropathy and pregnancy, 559
 small-fiber, 53
 sural, 482
 and vibration, 197
 Nitric oxide, 225, 313
 Nogo-A, 444
 Non-Hodgkin's lymphoma (NHL), 494
 Notexin
 and muscle regeneration, 577
 Nuclear membrane protein and inclusion-body myositis, 406
 Nutritional supplement, and Charcot-Marie-Tooth disease, 586

O

Obturator nerve, 640
 Oculobulbar myasthenia gravis (MG), 111. *See also* myasthenia gravis (MG)
 Open probability, 292
 Ophthalmoplegia, 232
 Organophosphate-induced delayed polyneuropathy (OPIDP), 499
 Orthodromic nerve conduction, 779
 Osteoporosis
 and spinal cord injury, 84
 Outcome predictors, 702
 Oxygen radical scavenging, 265

P

Pain and temperature detection, 105
 Pain models, and subacromial impingement syndrome, 631
 Pain, musculoskeletal, 631
 Palliative therapy, 265
 Palmar interosseous muscle, 779
 Paralysis
 and spinal cord injury, 84
 Paranasal sinus carcinoma, 108
 Paraspinal muscles, 361
 Parotid gland, 235
 Patellar tendon reflex (PR), 640
 Paw grip endurance, 709
 Perineural spread
 prostate cancer, 659
 Peripheral nerve fiber block, 189
 Peripheral nerve tumor, 373
 Peripheral nervous system
 and Burkitt-like lymphoma, 494
 Peripheral neuropathy, 232, 499, 762, 779, 785
 Peri-popliteal cystic bursitis, 503
 Pernicious anemia, 677
 Pesticide poisoning, 499
 Phenyl N-methyl N-benzylcarbamate, 499
 Phosphoglycerate mutase deficiency and cramping, 572
 Phosphorous spectroscopy, 782
 Pirfenidone administration, 327

Plasticity, muscle, after spinal cord injury, 84
 POEMS syndrome
 and VEGF, 391
 Poliomyelitis
 and motor unit number estimation, 608
 Polyglucosan body disease
 and cognition, 16
 Polyneuropathy
 diabetic, 417
 disimmune, 284
 distal symmetric, 131
 and methylcarbamates, 499
 Position effect
 in facioscapulohumeral dystrophy, 1
 Position sense, 545
 Positive sharp waves, 361
 Power assessment
 contraction-induced muscle injury, 470
 Predictability of progression,
 in amyotrophic lateral sclerosis, 702
 Pregnancy
 and neuromuscular disorders, 559
 Preimplantation diagnosis,
 of mitochondrial disease, 265
 Premotor potential
 second lumbrical, 779
 Proapoptotic factor BAX
 tibialis anterior muscle, 720
 Progressive encephalomyelitis, 677
 Progressive nuclear factor- κ B activation, 298
 Propagated insertional configuration, 457
 Proprioception, 545
 Prostate cancer
 perineural spread, 659
 Protein-energy undernutrition, 72
 Pupillary areflexia, 232

Q

Quadriceps-sparing myopathy, 775
 Quadriplegia
 medication-induced, 494
 Quality of life, 235
 Quantitative electromyography, 451
 Quantitative muscle analysis, 72
 Quantitative sensory testing, 205
 Quantitative sudomotor axon reflex test, 57

R

Radiation therapy
 and dropped head syndrome, 666
 Reactive oxygen radicals (ROS), 265
 Reading-frame rule, 135
 Recurrent myoglobinuria, 572
 Reflex electromyographic activity, 614
 Refractory multifocal motor neuropathy, 246
 Regeneration process, of muscle, 720
 Reinnervated muscle recovery
 fibroblast growth factor-2, 623
 Repetitive cyclic flexion
 and lumbar disorder, 614
 Repetitive discharges, 111
 Respiration, 651

and post-exercise impairment, 423
 Rest periods
 and central fatigue onset, 205
 Riluzole
 and amyotrophic lateral sclerosis, 702
 Rimmed vacuoles, 406
 Rippling muscle disease, 387
 statin-mediated, 478
 Rotator cuff injury, 631

S

Sarcoglycan, 691
 Satellite cell proliferation, 720
 Satellite cells, 313
 Schwann-cell response, 225
 Second lumbrical
 premotor potential, 779
 Sense of effort
 and kinesthesia, 545
 Sensory input
 post-stroke, 767
 Sensory neuropathy syndrome, 105
 Series elastic component, 740
 Sharp wave generation, 457
 Sialorrhea, 235
 Silent period, 178
 small hand muscles, 431
 Simvastatin, 387
 and rippling muscle disease, 478
 Single-fiber electromyography, 163
 Miller Fisher syndrome, 232
 Single muscle fiber analysis, 457
 spinal cord injury, 101
 Sinus carcinoma, 108
 Skeletal muscle, 253. *See also* muscle
 acetazolamide, 263
 atrophy, 463
 Charcot-Marie-Tooth disease, and
 creatine supplementation, 586
 fatigue, 62
 force deficits in, 485
 isometric force, 470
 and lack of dystrophin, 304
 regeneration, 577, 720
 stretch-induced activation, 313
 Skeletal muscle phosphodiesterases
 and statin medications, 782
 Slow myotonic discharge, 799
 Small-fiber neuropathy, 53
 sudomotor testing for, 57
 Small hand muscles,
 silent period of, 431
 Soleus fatigue test, 84
 Sonography, 380
 Spaceflight effects, 463
 Spastic wrist flexion deformity, 365
 Specific force, 101
 Spectral variables and muscle assessment,
 169
 Spectroscopy
 and myotonic dystrophy, 145
 Spinal cord disease, 789
 Spinal cord injury
 and electrical stimulation, 84
 and paralysis, 84
 and muscle fatigue, 84
 and single muscle fibers, 101
 Spinal muscular atrophy (SMA), 16, 731
 Statin drugs, 387

Statin-mediated rippling muscle disease, 478
 Statin medications
 skeletal muscle phosphodiesterases, 782
 Statin myopathy, 153, 387
 Steinert disease, 16
 Stiff-person syndrome, 677
 Strength measurement
 and MUNE, 603
 Stroke
 and hip joint position, 767
 Subacromial impingement syndrome,
 sensory-motor control in, 631
 Suckling period
 and muscle fiber cross-section and
 differentiation, 72
 Sudomotor testing
 small-fiber neuropathy, 57
 Supplementation therapy,
 of mitochondrial diseases, 265
 Sural neuropathy
 etiologies, 482

T

Tacrolimus, 284
 Tail-suspension effects, 463
 T-cell-mediated immunopathology, 122
 Template-operated motor unit potential,
 451
 Tendon reflex, 640
 Tendon transfer
 and muscle function characteristics, 365
 Tendon vibration
 and hypoxia, 754
 Terminal axon dysfunction, 232
 Terminal Schwann cell, 225

Tetrodotoxin, 747
 TGF- β , 327
 Thermoregulatory sweat test, 57
 Thymoma, 242, 251
 Tibialis anterior muscle
 proapoptotic factor BAX, 720
 Tonic vibration reflex, 754
 Torque, 205
 Touch detection, 105
 Transcranial magnetic stimulation, 178,
 431
 Transcription factor, 298
 Transfer RNA, 437
 Transforming growth factor-beta, 327
 Transverse tubule system, 263
 Traumatic ankle injury, 482
 T reflex, 640
 Triceps brachii
 and rest periods, 205
 Tubular aggregates, 572
 Tumor recurrence, 108
 Tyrosine nitration, 197

U

Ubiquitin ligase
 and skeletal muscle atrophy, 463
 UDP-N-acetylglucosamine 2 epimerase/N-
 acetylmannosamine kinase, 775
 Ullrich's congenital muscular dystrophy,
 347
 Ultrasound imaging
 abdominal muscle, 320
 Undernutrition, and muscle alterations,
 72
 Unloading conditions, 463
 Unmyelinated tactile afferents, 105

V

Valsalva maneuver, 651
 VAPB gene, 731
 Vascular endothelial growth factor
 (VEGF), 391
 Vascular smooth muscle, 197
 Vasculitic neuropathy, 380
 Vasospasm
 and vibration, 197
 Vibration-induced neuropathy, 197
 Vincristine neurotoxicity
 Burkitt-like lymphoma, 494
 Vitiligo
 and stiff-person syndrome, 677
 Volitional knee extensor activity, 767
 Voltage-gated chloride channel, 292
 Volume conduction, 457
 Voluntary activation, 205
 Von Frey hairs, 105

W

Whipple's disease
 muscle impairment in, 794
 Whole-cell recording, 292

X

X-linked disorders, 16
 Fabry disease, 53

Z

Zenarestat, 205

